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Capabilities of GEANIE at LANSCE/WNR: Spectroscopy of ^{238}U D.E. ARCHER, J.A. BECKER, L.A. BERNSTEIN, W. YOUNES, Lawrence Livermore National Laboratory, D.M. DRAKE, G.D. JOHNS, R.O. NELSON, Los Alamos National Laboratory¹ — GEANIE, located at the WNR/LANSCE facility in Los Alamos National Laboratory, is the first large Ge array coupled to a high-energy white neutron spallation source. This instrument provides the opportunity to explore untouched areas of nuclear structure through (n, n') and (n, xn) reactions. As a preliminary examination of the capabilities of GEANIE, the well known nucleus ^{238}U has been studied via the $^{238}\text{U}(n, n')$ reaction with 10 detectors. The data from this experiment will be presented and compared to an earlier $^{238}\text{U}(n, n')$ test run with a single LEPS detector ² and a similar light ion reaction performed at the GAMMASPHERE.

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²L.A. Bernstein *et al.*, Bull. Am. Phys. Soc. 41 1271, (1996)

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